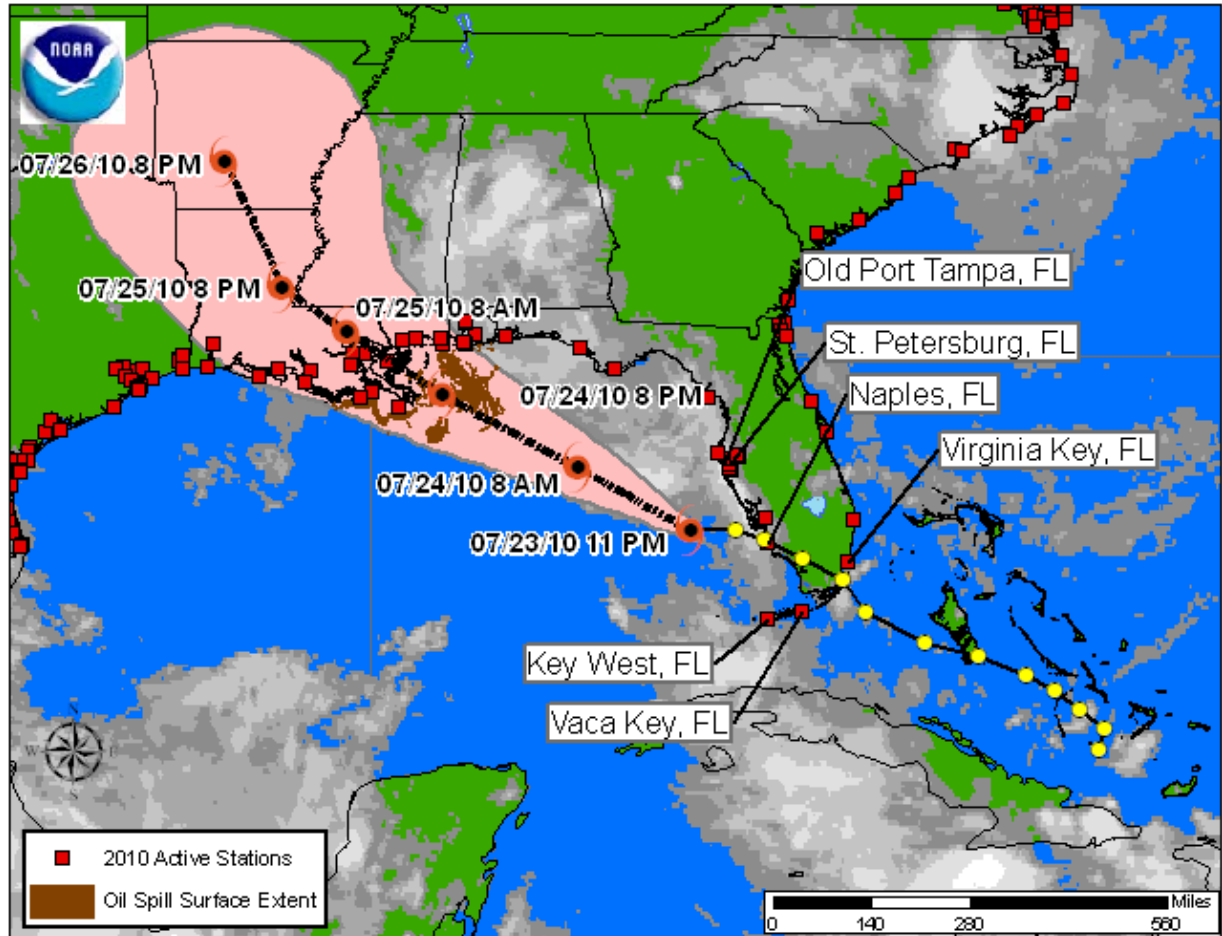




Tropical Depression BONNIE QuickLook
Posted: 00:00 EDT 07/23/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/24/2010 00:00 EDT, water levels across the Florida Keys are about 0.5 feet above predictions. Water levels along the west coast of Florida from Naples to Old Port Tampa are at or near predicted.

Wind speeds are generally ranging from 5 to 15 kts with some gusts up to 25 kts recorded over the past 6 hours. Barometric pressure is rising across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Old Port Tampa, FL: Next predicted high tides are 1.86 ft (0.56 m) at 07/24/2010 03:57 EDT and 3.01 ft (0.92 m) at 07/24/2010 13:37 EDT.

St. Petersburg, FL: Next predicted high tides are 1.52 ft (0.46 m) at 07/24/2010 04:05 EDT and 2.66 ft (0.81 m) at 07/24/2010 13:06 EDT.

Naples, FL: Next predicted high tides are 2.21 ft (0.67 m) at 07/24/2010 01:18 EDT and 3.23 ft (0.98 m) at 07/24/2010 11:36 EDT.

Key West, FL: Next predicted high tides are 1.96 ft (0.60 m) at 07/24/2010 09:20 CDT and 1.03 ft (0.31 m) at 07/24/2010 22:48 EDT.

Vaca Key, FL: Next predicted high tides are 0.48 ft (0.15 m) at 07/24/2010 03:16 EDT and 0.89 ft (0.27 m) at 07/24/2010 12:18 EDT.

Virginia Key, FL: Next predicted high tides are 1.98 ft (0.60 m) at 07/24/2010 08:23 CDT and 2.10 ft (0.64 m) at 07/24/2010 20:59 EDT.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst:WFR

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL DEPRESSION BONNIE ADVISORY NUMBER 7

1100 PM EDT FRI JUL 23 2010

...DISORGANIZED BONNIE MOVING THROUGH THE EASTERN GULF OF MEXICO...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

NONE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...

*** DESTIN FLORIDA TO MORGAN CITY LOUISIANA...INCLUDING LAKE PONTCHARTRAIN**

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 PM EDT THE CENTER OF TROPICAL DEPRESSION BONNIE WAS LOCATED about 100 MI SW of TAMPA, FLORIDA. THE DEPRESSION IS MOVING TOWARD THE WEST-NORTHWEST NEAR 17 MPH.

THIS GENERAL TRACK WITH A DECREASE IN FORWARD SPEED IS EXPECTED TO CONTINUE DURING THE NEXT TWO DAYS. ON THE FORECAST TRACK...BONNIE IS EXPECTED TO CROSS THE EASTERN GULF OF MEXICO TONIGHT AND SATURDAY AND REACH THE NORTHERN GULF COAST SATURDAY NIGHT OR EARLY SUNDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 35 MPH WITH HIGHER GUSTS. SLIGHT STRENGTHENING IS FORECAST ON SATURDAY...AND BONNIE COULD REGAIN TROPICAL STORM STRENGTH BEFORE REACHING THE NORTHERN GULF COAST.

THE LATEST MINIMUM CENTRAL PRESSURE REPORTED BY AN AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT IS 1010 MB...29.83 INCHES.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM FORCE WINDS MAINLY IN SQUALLS WILL LIKELY BEGIN ALONG PORTIONS OF THE NORTHERN GULF COAST WITHIN THE WARNING AREA ON SATURDAY.

RAINFALL...BONNIE IS EXPECTED TO PRODUCE TOTAL RAINFALL ACCUMULATIONS OF 1 TO 3 INCHES OVER PORTIONS OF SOUTHEASTERN LOUISIANA...SOUTHERN ALABAMA...SOUTHERN MISSISSIPPI...AND THE FAR WESTERN FLORIDA PANHANDLE...WITH POSSIBLE ISOLATED MAXIMUM AMOUNTS OF 5 INCHES.

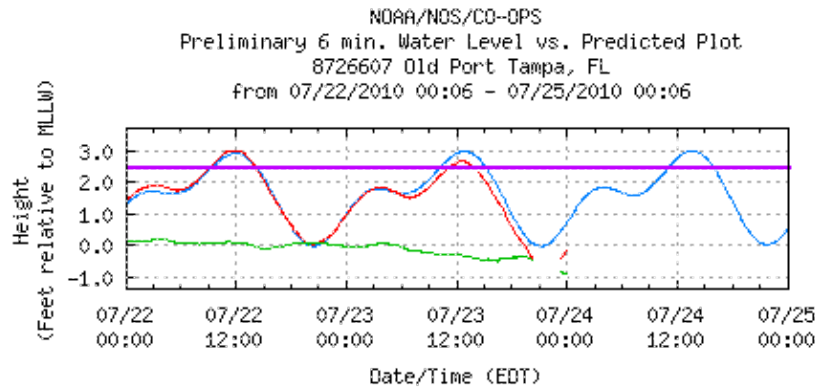
STORM SURGE...STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 2 TO 4 FEET ABOVE GROUND LEVEL ALONG THE IMMEDIATE COAST NEAR AND TO THE RIGHT OF WHERE THE CENTER MAKES LANDFALL ON THE NORTHERN GULF COAST.

FORECASTER BEVEN

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Old Port Tampa - Water Level](#), [Old Port Tampa - Winds](#), [St. Petersburg - Water Level](#), [St. Petersburg - Winds](#), [St. Petersburg - Barometric](#), [St. Petersburg - Air/Water Temp](#), [Naples - Water Level](#), [Naples - Winds](#), [Naples - Barometric](#), [Naples - Air/Water Temp](#), [Key West - Water Level](#), [Key West - Barometric](#), [Vaca Key - Water Level](#), [Vaca Key - Winds](#), [Vaca Key - Barometric](#), [Vaca Key - Air/Water Temp](#), [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Barometric](#), [Virginia Key - Air/Water Temp](#).

Old Port Tampa, FL - [Return to List](#)

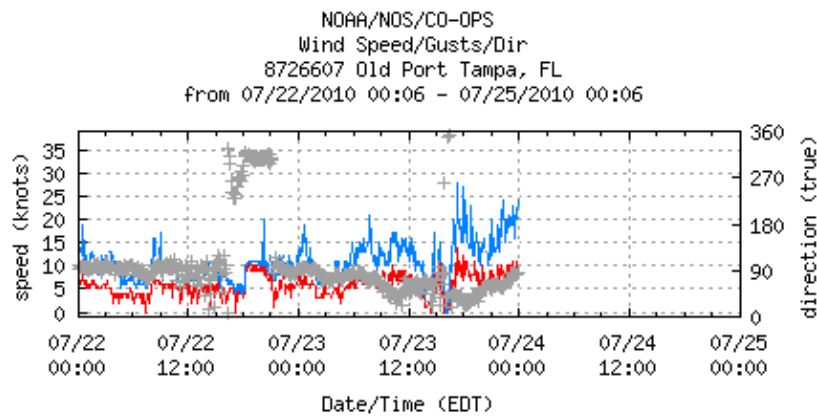


Last Observed Sample: 07/23/2010 23:54 (EDT)

Relative to **MLLW**: **Observed: -0.18 ft. Predicted: 0.70 ft. Residual: -0.88 ft.**

Historical Maximum Water Level: Oct 8 1996, 3.56 ft. above **MHHW**

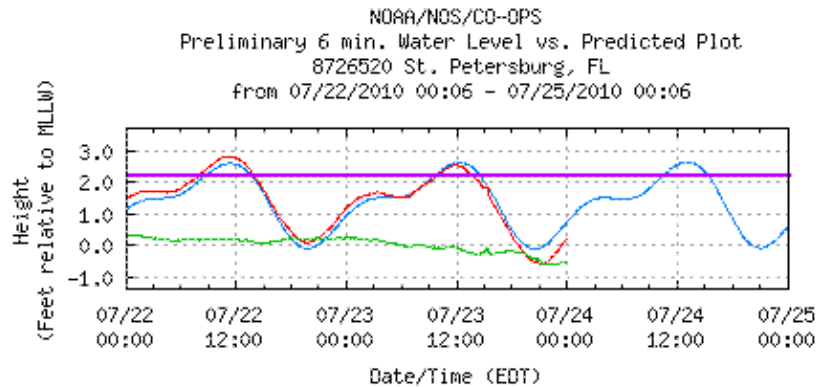
Old Port Tampa, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Wind Speed: 9 knots Gusts: 24 knots Direction: 084° T

St. Petersburg, FL - [Return to List](#)



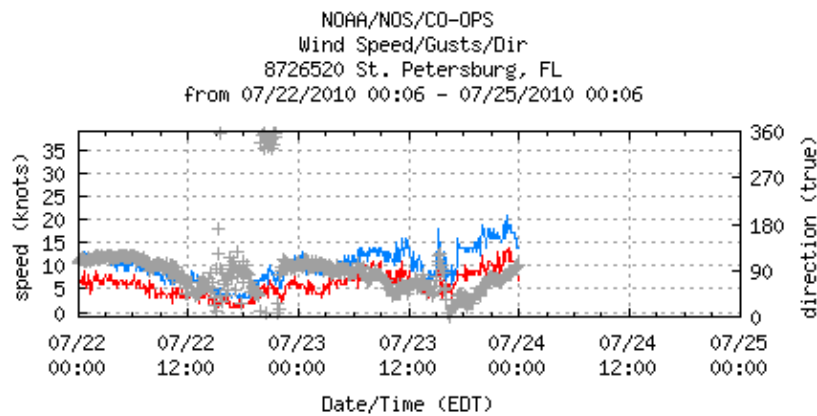
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 07/23/2010 23:54 (EDT)

Relative to **MLLW**: **Observed: 0.18 ft. Predicted: 0.71 ft. Residual: -0.53 ft.**

Historical Maximum Water Level: Aug 31 1985, 4 ft. above **MHHW**

St. Petersburg, FL - [Return to List](#)

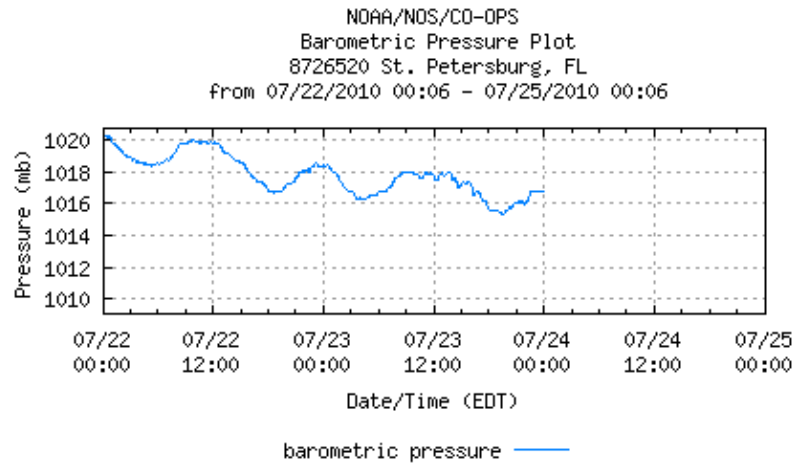


speed — gusts — direction +

Last Observed Sample: 07/23/2010 23:54 (EDT)

Wind Speed: 7 knots Gusts: 14 knots Direction: 102° T

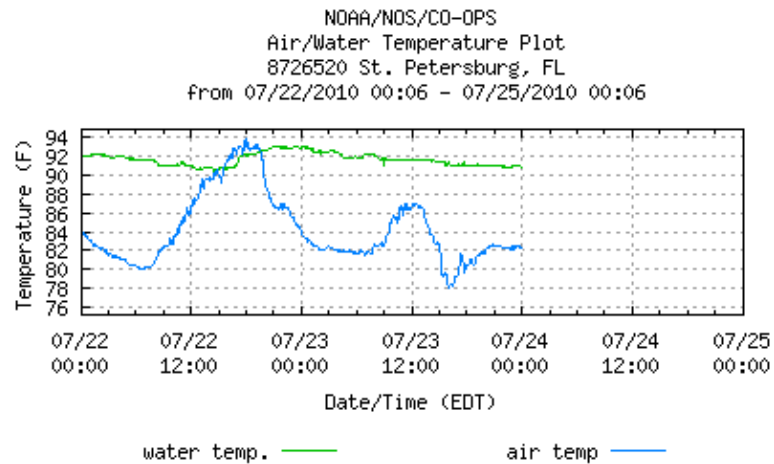
St. Petersburg, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Barometric Pressure: 1016.7 mb

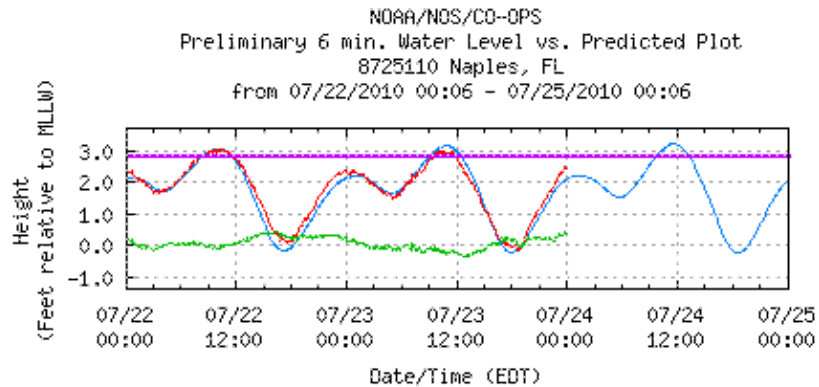
St. Petersburg, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Water Temperature: 90.8° F Air Temperature: 82.2° F

Naples, FL - [Return to List](#)



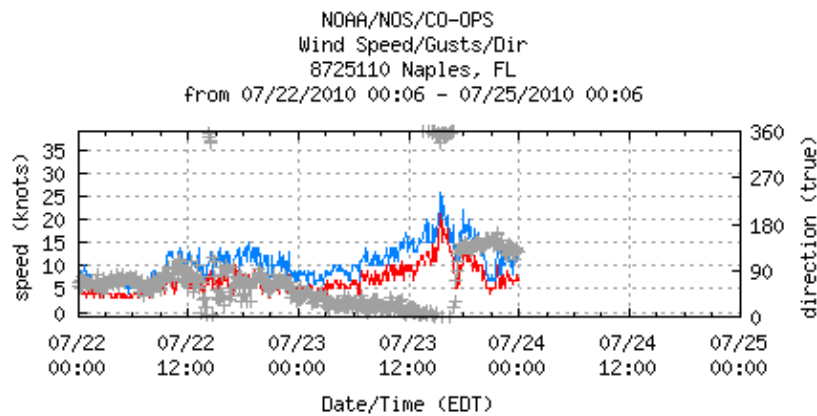
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 07/23/2010 23:54 (EDT)

Relative to **MLLW**: **Observed: 2.46 ft. Predicted: 2.09 ft. Residual: 0.37 ft.**

Historical Maximum Water Level: Dec 21 1972, 3.11 ft. above **MHHW**

Naples, FL - [Return to List](#)

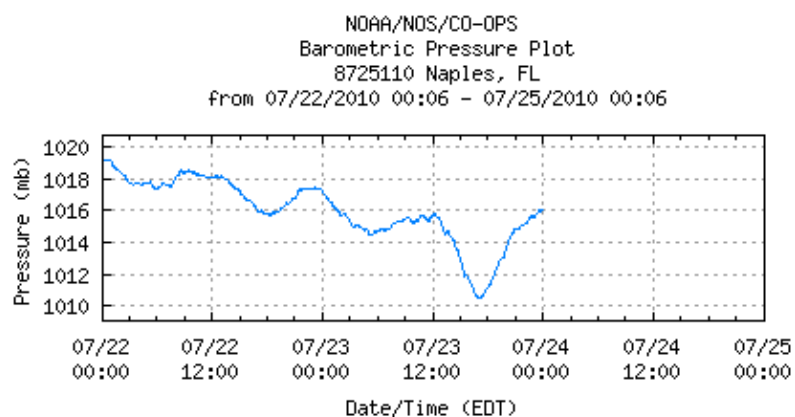


speed — gusts — direction +

Last Observed Sample: 07/23/2010 23:54 (EDT)

Wind Speed: 7 knots Gusts: 13 knots Direction: 126° T

Naples, FL - [Return to List](#)

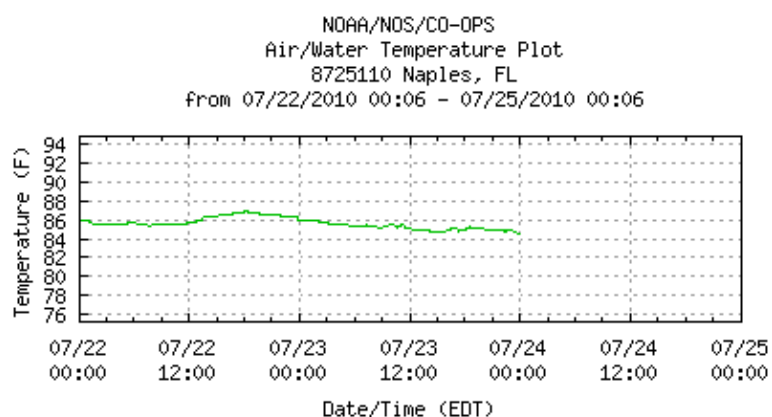


barometric pressure —

Last Observed Sample: 07/23/2010 23:54 (EDT)

Barometric Pressure: 1016.0 mb

Naples, FL - [Return to List](#)

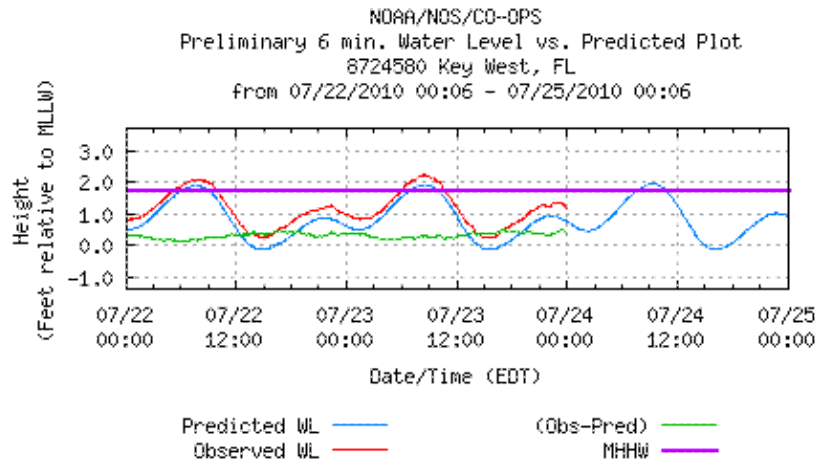


water temp. — air temp —

Last Observed Sample: 07/22/2010 00:06 (EDT)

Water Temperature: 86.0° F Air Temperature: n/a

Key West, FL - [Return to List](#)

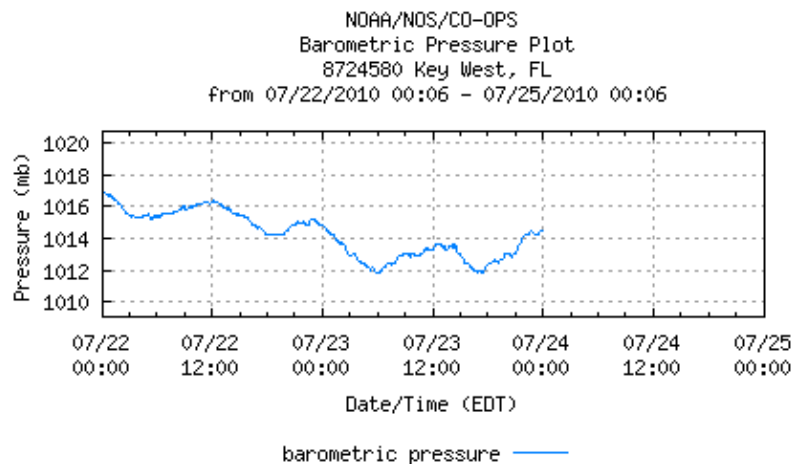


Last Observed Sample: 07/23/2010 23:54 (EDT)

Relative to **MLLW**: **Observed: 1.19 ft. Predicted: 0.78 ft. Residual: 0.41 ft.**

Historical Maximum Water Level: Sep 8 1965, 1.93 ft. above **MHHW**

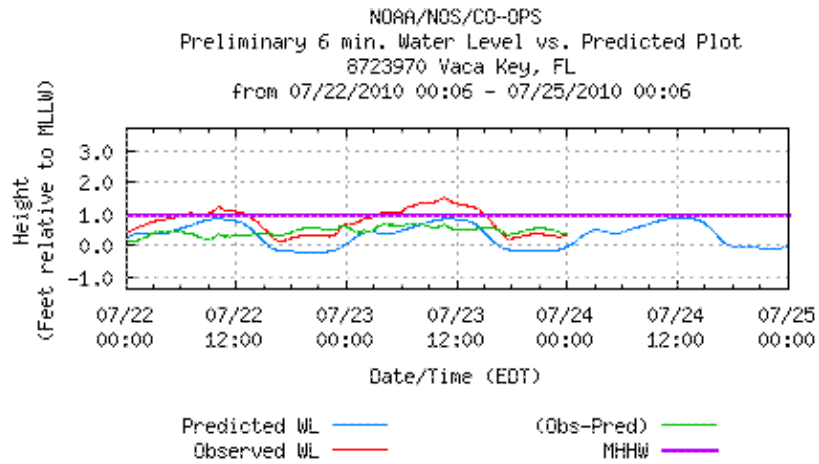
Key West, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Barometric Pressure: 1014.5 mb

Vaca Key, FL - [Return to List](#)

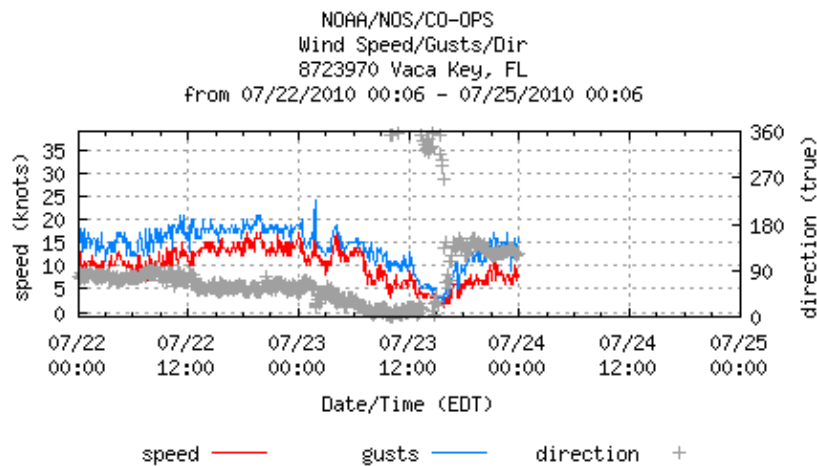


Last Observed Sample: 07/23/2010 23:54 (EDT)

Relative to **MLLW**: **Observed: 0.31 ft.** **Predicted: -0.06 ft.** **Residual: 0.37 ft.**

Historical Maximum Water Level: Oct 7 1974, 1.42 ft. above **MHHW**

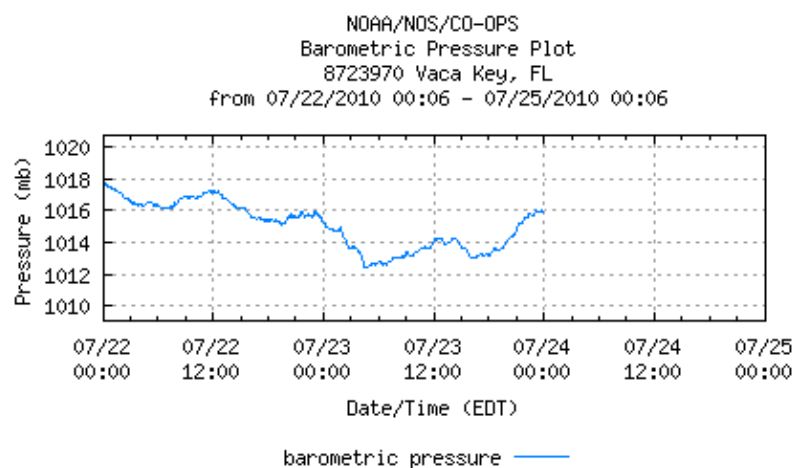
Vaca Key, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Wind Speed: 8 knots **Gusts: 16 knots** **Direction: 123° T**

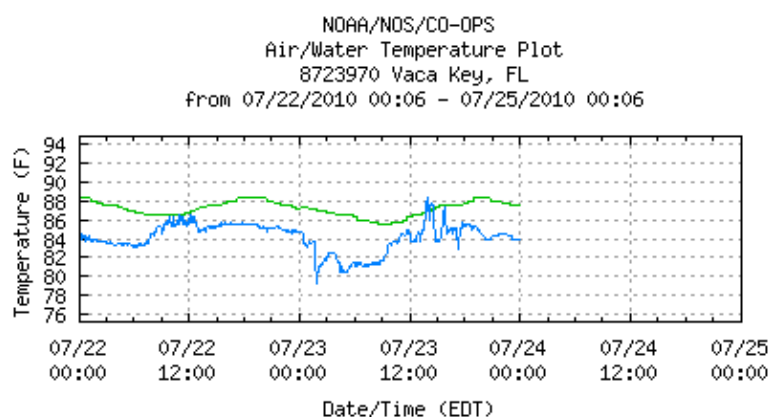
Vaca Key, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Barometric Pressure: 1015.9 mb

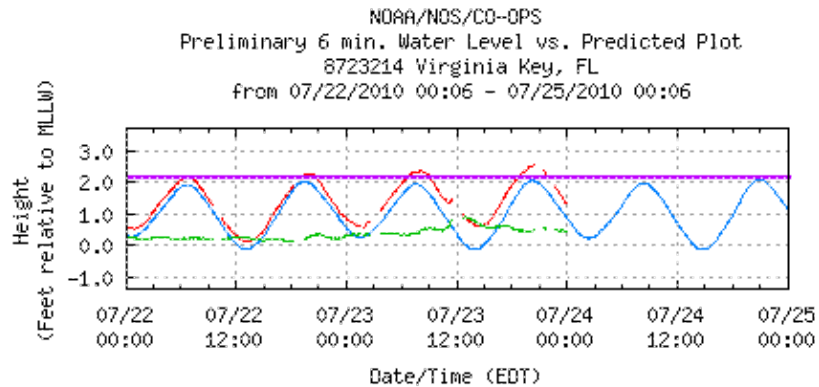
Vaca Key, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Water Temperature: 87.6° F Air Temperature: 84.0° F

Virginia Key, FL - [Return to List](#)

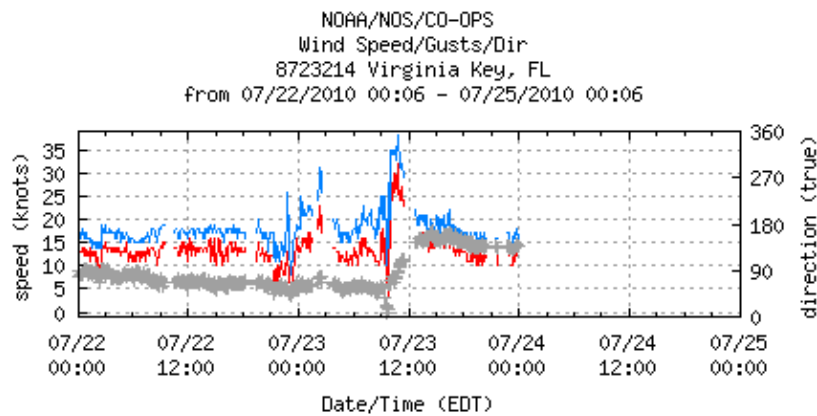


Last Observed Sample: 07/23/2010 23:54 (EDT)

Relative to **MLLW**: **Observed: 1.36 ft. Predicted: 0.91 ft. Residual: 0.45 ft.**

Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above **MHHW**

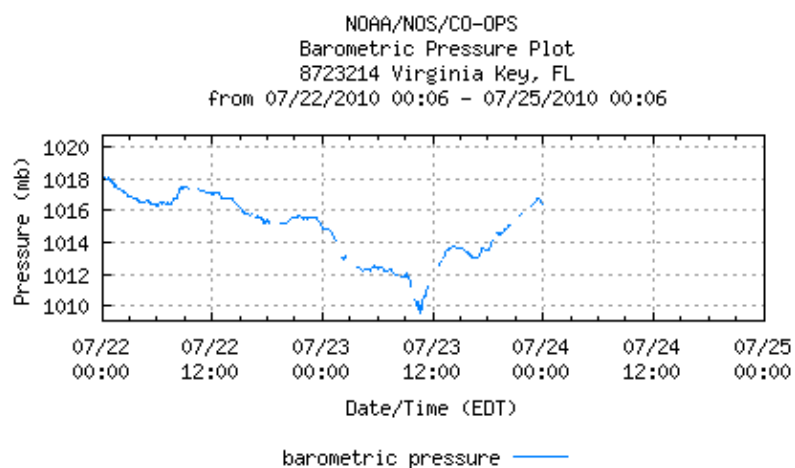
Virginia Key, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Wind Speed: 13 knots Gusts: 16 knots Direction: 139° T

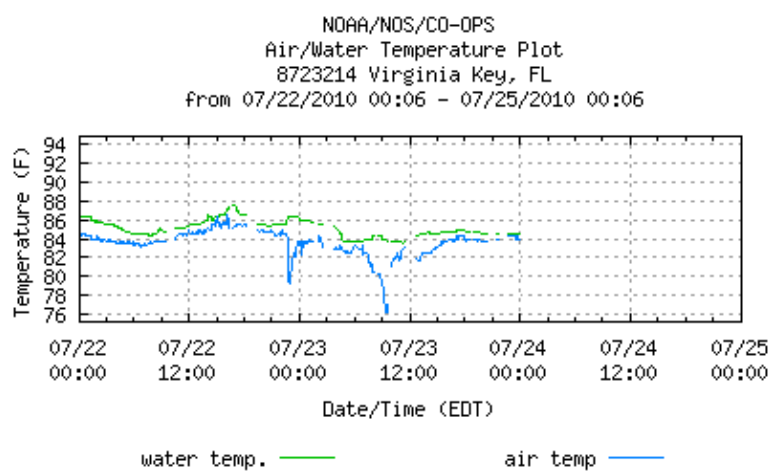
Virginia Key, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Barometric Pressure: 1016.4 mb

Virginia Key, FL - [Return to List](#)



Last Observed Sample: 07/23/2010 23:54 (EDT)

Water Temperature: 84.4° F Air Temperature: 84.0° F

Tropical Depression BONNIE QuickLook, POSTED 00:00 EDT 07/23/2010

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce